

OVERVIEW



Entrepreneur, AI Innovator, and Postdoctoral Researcher with a proven track record of pioneering solutions at the intersection of artificial intelligence and healthcare. With a clinical background as a former professional athlete, physiologist, nutritionist, I am passionate about merging my healthcare expertise with AI to revolutionize wellness, diagnostics, and personalized medicine. Skilled in transforming cutting-edge research into market-ready AI-driven ventures, I excel at building successful startups and leading high-performing teams to scale innovative technologies. Renowned for visionary leadership, exceptional communication, and strategic execution, I thrive at the nexus of clinical excellence and entrepreneurial innovation, dedicated to empowering individuals and communities through transformative AI solutions.

EDUCATION



- **MD student 2023 Year 4 Gulf Medical University, graduate entry** Ajman, UAE.
- **Ph.D. Medical Science**, Department of Translational Neurosciences and Otorhinolaryngology and Head and Neck Surgery, Faculty of Medicine and Health Sciences, Antwerp University, Belgium. Full-time grant - BELSO (Belgian Space Policy), ESA. October 2015- June 2018
- **MSc Space Physiology & Health**, Centre of Human & Aerospace Physiological Science, King's College London, and London, UK. September 2012- September 2013
- **BSc Medical Physiology & Health**, School of Health Sport and Bioscience, University of East London, London, UK. September 2009- June 2012

WORK EXPERIENCE ENTREPRENEURSHIP



- **Head of Human Brain Interface & XR Technology Lab, Dubai Digital Health Innovation, Mohamed Bin Rashid University of Medicine and Health Sciences (MBRU), Dubai Health, Dubai, UAE June 2025 – Present**
Leading the development and implementation of cutting-edge brain-computer interface (BCI) and extended reality (XR) technologies tailored for healthcare applications within Dubai's healthcare ecosystem. This role is based at Jalila Foundation next to MBRU and we collaborate closely with the University as well as with Dubai Health, driving innovation to transform patient care and medical research.

- **Director Viviana Management Consultancy, Dubai, UAE. December 2022-Present**

Viviana Management Consulting is a boutique consultancy firm that enables med-tech companies to establish themselves in the Middle East. My clients range from Virtual Reality companies developing technologies in the space of Rehabilitation to cosmetics, pharmaceutical, and genomic.

- **Founder & CEO Bequalise Inc. USA. April 2023- Present**

Bequalise is the first mobile app to help women affected by balance disorders by hacking and enhancing the current standard of care. We are about to close our seed funding raise. Our mission is to use science and technology-based solutions, via our digital platform, to provide a personalized and holistic recovery.

- **Co-Founder of KyrAm App - Solution741 SRL – KYRAM APP - Via Caldera 21, 20121, Milan, Italy. / Solution741GV – FZCO - Dubai Digital Park, Silicon Oasis. July 2021-March 2023.**

KyrAm App is a social app that connects athletes around the world. I exited in March of this year.

- **Co-Founder - Sales Manager- DiviTech LLC – FineGaze (www.finegaze.com) New Jersey USA, September 2019 – Present**

Medical Device companies produce portable Videonystagmography devices.



DR. VIVIANA

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MD Student

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RELEVANT SKILLS

- Entrepreneurship
- Clinical Trial Expert
- Management consulting
- Medtech- Wellness-Start up

RESEARCH GATE:

- https://www.researchgate.net/profile/Viviana_Mucci3

MORE EXPERIENCES



- **Senior Consultant** – *Catalyze Group* (<https://www.catalyze-group.com/>) Amsterdam, NL. December 2020 – December 2021.

Senior consultant in the Life Science consultant team. The main tasks involved securing non-diluted funding for innovative start-ups, small companies, and spin-offs or academic projects. Provide expertise to organizations to help them improve their business performance in terms of operations, profitability, management, structure, and strategy.

- **Adjunct Postdoctoral Research Fellow – School of Science, Western Sydney University Australia.** January 2020- Present

As a Postdoctoral researcher, I help supervise Ph.D. students, and I prepare lectures and conference speeches on a part-time basis. I am also involved in setting up ethical committee protocols, supervising clinical trials, data collection, data analysis, and manuscript preparation as well as grant applications.

My research interests are focused on:

- 1) assessing new potential treatments for vestibular disorders and traumatic brain injuries,
- 2) as well as investigating the pathophysiology of different vestibular disorders
- 3) hormonal involvement in the vestibular system
- 4) fibromyalgia and dysautonomia - neuroimaging,
- 5) extreme physiology and space physiology

- **Researcher – Fondazione Santa Lucia, Rome, Italy.** April 2020 – November 2020.

- **Postdoctoral Fellow, Department of Neurology, Ichan School of Medicine, Mount Sinai Hospital, NYC USA.** September - November 2019.

- **Postdoctoral at University Hospital Zurich, Department of Neurology, Zurich CH.** November 2018 – July 2019

- **Researcher at the Swiss Concussion Center, Shulthess Klinik Zurich CH.** November 2018 – July 2018

- **Consultant at Geneva University, ENT Department, Geneva, CH.** October 2018 – August 2019

- **Senior Manager - Paul Tucker Personal training studio, Brussels Belgium, 2015 - 2018.**

As a Senior Manager of Physiological Assessments, Personal Training, and Sports Nutrition, I oversee the development and implementation of comprehensive fitness programs and assessments. My role involves ensuring that clients receive personalized training and nutrition plans based on their physiological data. I lead a team of professionals, coordinate services across various disciplines, and focus on enhancing client performance and well-being through evidence-based practices. Additionally, I manage departmental operations and strategic initiatives to promote a culture of health and fitness.

- **Chair of the Committee - Immigration Health Challenges.** European Health Parliament (EHP), Brussels, Belgium. October 2015- July 2016

- **Researcher EMBalance Project** (<http://www.embalance.eu>), Antwerp University, EU committee, Belgium. October 2015- March 2017. The EMBalance project was an EU-funded project, we developed a decision support system (DSS) for primary and secondary care physicians, for diagnostic evaluation, behavior prediction, and effective management planning of balance problems.

- **Research Entrepreneur Heart Kinetics Spin-off** from *Erasmé Hospital, Department of Cardiology/ spin off - incubator European Space Agency, ULB, Brussels, Belgium.* September 2014- September 2015

Heart Kinetics was a Spin-Off project between the Laboratory of Physics and Physiology at the Université Libre de Bruxelles (ULB) and the European Space Agency (ESA). As Project Leader and Co-Founder of the company, I was involved in the full launch of the spin-off.

LANGUAGES

- Mother tongue: Italian
- Bilingual: English
- First level: Spanish, French,

INVESTOR

Recently invested in HOCL LABS hocllabs.com an innovative startup making HOCL products in UAE.

CERTIFICATES AWARDS PUBLICATIONS



- 29 publications: <https://loop.frontiersin.org/people/508650/overview>
- Teacher – Faculty member of the International Vestibular Master Call / GMU UAE/ Otolaryngology Dubai
- Middle East Academy of Otolaryngology-Head and Neck Surgery May 2023, Oct 2025.
- Personal Trainer (certified level 3) sports nutritionist since 2014
- Sport Nutritionist since 2014, Private clients
- International speaker (more than 80 public speaking)
- 44 contributions and publications - editor for Frontiers of Rehabilitation frontiers.
- Award from Future Science Early Career Scientist 2018
- Currently attending the College of Homeopathy in London, UK.

PUBLICATION LIST

1. Mucci, V. et al. 2025. Psycho-Neuro-Endocrine-Immunology and Vestibular Disorders: A perspective study. PNEI Review - Open access. (mar. 2025). DOI:<https://doi.org/10.3280/pnei2025oa19824>.
2. Ilaria Demori, Serena Losacco, Giulia Giordano, Viviana Mucci, Franco Blanchini, Bruno Burlando, Published: July 11, 2024 Fibromyalgia pathogenesis explained by a neuroendocrine multistable model - PlosOne. <https://doi.org/10.1371/journal.pone.0303573>
3. Proietti E, Rapallo F, Molinari E, Mucci V, Marinelli L, Borgarelli C, Burlando B, Pisciotta L, Demori I. Online Questionnaire with Fibromyalgia Patients Shows Negative Correlations between Disease Severity and Adherence to Mediterranean Diet. *Nutrients*. 2024; 16(7):1078. <https://doi.org/10.3390/nu16071078>
4. Browne CJ, Sheeba SR, Astill T, Baily A, Deblieck C, Mucci V, et al. Assessing the synergistic effectiveness of intermittent theta burst stimulation and the vestibular ocular reflex rehabilitation protocol in the treatment of Mal de Debarquement Syndrome: a randomised controlled trial. *J Neurol* [Internet]. 2024;271(5):2615–30. Available from: <https://doi.org/10.1007/s00415-024-12215-5>
5. Viviana Mucci, Ilaria Demori, Cherylea J. Browne, Choi Deblieck, Fibromyalgia in pregnancy: neuro-immuno-endocrine fluctuations provide insight into pathophysiology and neuromodulation treatment. *Biomedicines* 2023, 11,(2), 615, 16th Feb, 2023.
6. Demori I, Molinari E, Rapallo F, Mucci V, Marinelli L, Losacco S, et al. Online Questionnaire with Fibromyalgia Patients Reveals Correlations among Type of Pain, Psychological Alterations, and Effectiveness of Non-Pharmacological Therapies. Vol. 10, *Healthcare*. 2022.
7. Cherylea J Browne, Paul Fahey, Stella R Sheeba, Margie H Sharpe, Mark Rosner, Debby Feinberg, Viviana Mucci. Visual disorders and mal de debarquement syndrome: a potential comorbidity questionnaire-based study. *Future Science*, 14 Sep 2022 <https://doi.org/10.2144/fsoa-2022-0022>
8. Ilaria Demori, Giulia Giordano, Viviana Mucci, Serena Losacco, Lucio Marinelli, Paolo Massobrio, Franco Blanchini, Bruno Burlando, 2022. Thalamocortical bistable switch as a theoretical model of fibromyalgia pathogenesis inferred from a literature survey. *J Comput Neurosci* doi: 10.1007/s10827-022-00826-8. Online ahead of print.
9. Mucci V, Demori I, Rapallo F, Molinari E, Losacco S, Marinelli L, Browne CJ, Burlando B. Vestibular Disability/Handicap in Fibromyalgia: A Questionnaire Study. *J Clin Med*. 2022 Jul 11;11(14):4017. doi: 10.3390/jcm11144017. PMID: 35887781; PMCID: PMC9315683.
10. Mucci, V., Hamid, M., Jacquemyn, Y., Browne, C.J. Influence of sex hormones on vestibular disorders. *Opinion of Neurology*, 2021, DOI: 10.1097/WCO.0000000000001019
11. Indovina I, Passamonti L, Mucci V, et al Brain Correlates of Persistent Postural-Perceptual Dizziness: A Review on Neuroimaging Studies. *J Clin Med* 10:4274 <https://doi.org/10.3390/jcm10184274>
12. Sonu Bhaskar, Sian Bradley, Vijay Kumar Chattu, Anil Adisesh, Alma Nurtazina, Saltanat Kyrykbayeva, Sateesh Sakhamuri, Sanni Yaya, Thankam Sunil, Pravin Thomas, Viviana Mucci, Sebastian Moguilner, Simon Israel-Korn, Jason Alacapa, Abha Mishra, Shawna Pandya, Starr Schroeder, Ashish Atreja, Maciej Banach and, Daniel Ray: 'Telemedicine across the geographical divide - lessons and opportunities in COVID-19 era: Recommendations and Perspectives from REPROGRAM Consortium (Part 1)' to be considered for publication in *Frontiers in Medicine*, section Infectious Diseases – Surveillance, Prevention and Treatment'.
13. Seehusen, C.N.; Mucci, V.; Welman, K.E.; Browne, C.J.; Feletti, F.; Provance, A.J. Review on reported concussion, identification and management in extreme sports. *Muscles. Ligaments Tendons J*. 2020, 10, 290–299, doi:10.32098/mltj.02.2020.14.
14. Mucci, V.; Indovina, I.; Browne, C.J.; Blanchini, F.; Giordano, G.; Marinelli, L.; Burlando, B. Mal de Debarquement Syndrome: A Matter of Loops? *Front. Neurol*. 2020, 11, 576860, doi:10.3389/fneur.2020.576860.
15. V.Mucci, C.Maier, M. Bizzini, G.Bertolini, F.Romano, A.Ventura, N.Feddermann-Demont, 'Optokinetic treatment and Vestibular Rehabilitation to reduce Visually Induced Dizziness after Concussion in a Professional Ice-Hockey Player', 2019.
16. V.Mucci, M.Sussetto, M.Ranieri, S.Cavuscens, A.Perez-Fornos, N.Guinand, 'Syndrome du Mal de Débarquement'.2019.
17. Chapter: V.Mucci, C.Browne: Motion Sickness. *Medical Otolaryngology and Neurotology. A Clinical Guide to Auditory and Vestibular Disorders*, Second Edition, Thieme.
18. Chapter: V.Mucci, C.Browne, M.Hamid: Vestibular rehabilitation. *Medical Otolaryngology and Neurotology. A Clinical Guide to Auditory and Vestibular Disorders*, Second Edition, Thieme.
19. Chapter: F.Feletti, V.Mucci, A.Aliverti. Posturography, Academic Press, 2019. <https://doi.org/10.1016/B978-0-12-816713-7.00062-3>
20. V.Mucci, J. Canceri, Y. Jacquemyn, A.Van Ombergen, L.K. Maes, P.H. Van de Heyning, C.J. Browne, 'Pilot Study on Mal de Debarquement Syndrome Patients during Pregnancy'. *Future Science*. Feb, 2019.
21. V.Mucci, T. Pekisas, S. Jillings, V. Van Rompaey, E. Franssen, L. Vereeck, F. L. Wuyts, P.H. Van de Heyning, C. Browne and A. Van Ombergen. 'Sham-controlled study of optokinetic stimuli as treatment for Mal de Debarquement Syndrome'. *Frontiers of Neurology*, Oct. 2018
22. V.Mucci, A. Van Ombergen, Y. Jacquemyn, P.H. Van de Heyning, C.J. Browne, 'A New Theory on GABA and Calcitonin Gene-Related Peptide Involvement in MdDS Predisposition Factors and Pathophysiology'. *Medical Hypothesis*, Aug.2018.
23. V. Mucci, J. M. Canceri, R. Brown, M. Dai, S. Yakushin, S. Watson, A. Van Ombergen, V. Topsakal, P. H. Van de Heyning, F. L. Wuyts, and C. J. Browne, 'Mal de Debarquement Syndrome: a survey on subtypes, misdiagnoses, onset and associated psychological features', *Journal of Neurology*, no. 123456789, pp. 1–14, 2018.
24. A. Van Ombergen, L. Heine, S. Jillings, R. E. Roberts, B. Jeurissen, V. Van Rompaey, V. Mucci, S. Vanhecke, J. Sijbers, F. Vanhevel, S. Sanaert, M. Ali, P. M. Parizel, P. H. Van De Heyning, S. Laureys, and F. L. Wuyts, 'NeuroImage: Clinical Altered functional brain connectivity in patients with visually induced dizziness', *NeuroImage: Clinical*, vol. 14, pp. 538–545, 2017.
25. F.Feletti, V.Mucci, A.Aliverti, 'Chest Ultrasonography in modern-day extreme settings -from military setting and natural disasters to space flights and extreme sports', *Canadian Respiratory Journal*, 2018.
26. V.Mucci, Y-H. Cha, F.L. Wuyts, A. Van Ombergen. 'Perspective: Stepping-stones to unravelling the pathophysiology of mal de debarquement syndrome with neuroimaging'. *Frontiers in Neurology*, section Neuro-Otology, 2018.
27. V.Mucci, J. M. Canceri, R. Brown, M.Dai, S.Yakushin, W. Shaun, A. Van Ombergen, Y. Jacquemyn, P. H. Van de Heyning, F. Wuyts and C. J. Browne, 'Are gonadal hormones involved in the pathophysiology of Mal de Debarquement Syndrome?'. *Frontiers in Neurology*, section Neuro-Otology, 2018.
28. A.Van Ombergen, M. De Beukelaer, V.Mucci, P. H.Van de Heyning, V.Van Rompaey, 'Het Mal de Debarquement Syndroom: huidige stand van zaken' *Tijdschrift voor Geneeskunde*, 2018.
29. European Health Parliament: 'Healthcare access for Undocumented Migrants' EHP 2016.